



## **South Coast Water District Recycled Water Distribution Bottleneck Upsizing Project**

### **Basis for Estimates for the Water and Energy Savings and GHG Calculations**

- The power required to import one acre-foot (AF) of water is 2,500 kwh (3,000 kwh/AF for State Water Project water and 2,000 kwh/AF for Colorado River water).
- One acre-foot of recycled water requires 500 kwh of energy to produce and deliver.

References for the energy savings:

“Analysis of the Energy Intensity of Water Supplies for West Basin Municipal Water District”. Robert C. Wilkinson, Ph.D. March, 2007.

“Seawater Desalination Power Consumption”. White Paper. Watereuse. November, 2011.

“Direct Potable Reuse: Benefits for Public Water Supplies, Agriculture, the Environment, and Energy Conservation”.

EDWARD SCHROEDER, GEORGE TCHOBANOGLOUS, HAROLD L. LEVERENZ, AND TAKASHI ASANO. Department of Civil and Environmental Engineering, University of California, Davis. January, 2012.